

Windows®. Life without Walls™.
Panasonic recommends Windows 7.

Panasonic
ideas for life



TOUGHBOOK CF-19. THE RUGGED CONVERTIBLE TOUGHBOOK.

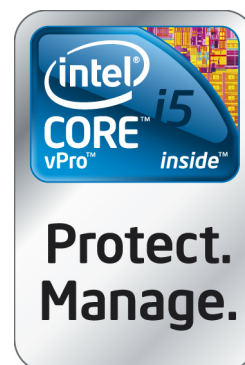
Featuring a revolutionary LCD screen that transforms from a high-performance notebook to a fully portable tablet PC, the CF-19 convertible tablet PC is reliable, durable and lightweight at just 2.3kg. The optimised display technology with low reflection allows for perfect visibility even in direct sunlight environments (up to 1000cd/m2).

The LCD itself is protected by a durable scratch-resistant magnesium alloy case, mounted to the base cabinet with a reinforced 180 degree rotatable hinge. Data is secured on the hard disk drive - enclosed in a shock-absorbing damper that sits inside an aluminium case. A double waterproof structure ensures a tight, durable seal that complies with IP65* water and dust-proofing standards and a special HDD-heater counters any adverse temperatures. These striking features ensure that you can rely on the CF-19, even in extreme conditions.

The Intel® Core™ i5 with vPro™ technology and Intel® Core™ i5 Duo processor delivers high performance and efficient energy consumption. Embedded WLAN and optional 3G Mobile Broadband capabilities enable wireless data transfer for business communication. The high-power battery allows for a running time of up to 9 hours.

- Intel® Core™ i5-540UM vPro™ processor
- Genuine Windows® 7 Professional
- Vibration and shock resistant (MIL-STD 810G)*
- Water and dust resistant (IP65, MIL-STD 810G)*
- Lightweight at just 2.3kg
- Extremely bright 10.4" LCD with Dual Touch or Touchscreen (up to 1000cd/m2)
- Long battery life of up to 9 hours
- Firewire (IEEE1394a), USB 2.0 and serial port
- Bluetooth™ and WLAN integrated
- 3G Broadband optional (UMTS/HSPA with Gobi-Chip)

* Tested by an independent third party lab following IEC 60529, sections 13.4, 13.6.2, 14.2.5, 14.3



TOUGHBOOK When it's worth doing better.

www.toughbook.co.uk

MOBILE BUSINESS EXCELLENCE



| | | |
|---------------------------|--|---|
| Mobile Computing Platform | - Intel® Core™ i5-540UM vPro™ processor (1.2GHz, 3MB Intel® Smart Cache) - Intel® 5 series Express chipset QM57 - Intel® Centrino® Advanced-N 6200 AGN WLAN | |
| OS | Genuine Windows® 7 Professional | |
| RAM | 2 GB, DDR3 SDRAM (max. 4 GB) | |
| Graphic Chip | Intel® HD Graphics, UMA (Windows 7 max. 763 MB, Windows XP max. 1024 MB) | |
| Storage | 160GB HDD (SATA, easy accessible, shock resistant - withstands 180cm* drop) | |
| LCD | 10.4" sunlight-viewable XGA Active Matrix (TFT) colour LCD with up to 1000cd/m2 - Touchscreen model or - Dual Touch model (Touchscreen and Digitizer) 1024 x 768 pixels (XGA); 16 million colours; Concealed Mode | |
| Cabinet | Full magnesium alloy with handstrap | |
| Bluetooth™ | Version 2.1 + EDR | |
| WLAN | Intel® Centrino® Advanced-N 6200 AGN WLAN | |
| LAN | 1000BASE-T/100BASE-TX/10Base-T | |
| Modem | Data : 56 kbps V.92; FAX : 14.4 kbps / voice not compatible | |
| Sound | Intel® High-Definition audio compliant Monaural speaker (integrated in display cabinet) | |
| Input Devices | Touchscreen or Dual Touch LCD, Touchpad and Keyboard | |
| Indicators | 9 LEDs (Power, Battery, HDD, Caps Lock, Scroll Lock, Num Lock, SD Card, WWAN, Wireless Data Transfer) | |
| Interfaces | Serial (16550A compatible) | Dsub, 9-pin |
| | External display (VGA port) | Mini D-sub, 15-pin |
| | Headphone | Mini-jack, 3.5 DIA, stereo |
| | Microphone | Mini-jack, 3.5 DIA, stereo |
| | DC In | Jack |
| | USB 2.0 | 2x 4-pin |
| | Modem | RJ-11 |
| | LAN | RJ-45 |
| | Firewire (IEEE1394a) | 1x 4-pin |
| | External Antenna: | 2x (Dedicated 50 ohms coaxial connector) |
| Expansion Slots | Port Replicator: | 100-pin |
| | PC Card: | 1x Type II (3.3V: 400mA, 5V: 400mA) |
| | Express Card: | 1x ExpressCard/34 or ExpressCard/54 SD/SDHC |
| | Memory Card: | 1x Optional |
| Power | RAM Module: | 1x DDR3 200-pin SO-DIMM (1.8 V, DDR3 SDRAM, PC3-6400 Compliant) |
| | AC Adapter: | Input: 100 ~ 240V AC, 50Hz/60Hz; Output: 16V DC, 3.75A |
| | Battery: | Li-ion 11.1V, 5.6Ah(typ) 5.3Ah(min) |
| | Battery Life: | Approx. 9 hours (Mobile Mark™ 2007, 60cd/m², Windows 7® Touchscreen Model) |
| | Charging Time: | Power off: approx. 3.5 hours; Power on: approx. 3.5 hours |
| | Power Consumption: | Approx. 60W (maximum when recharging) |
| Power Management | Standby function, Hibernation function, ACPI BIOS | |
| Software | Adobe Reader, PC Information Viewer, Loupe Utility, Intel® PROSet/Wireless Software, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Panasonic Hand Writing, Display Rotation Tool, Infineon TPM Professional Package, Power Saving Utility, Wireless Connection Disable Utility, Concealed Mode Utility Setup Utility, Hard Disk Data Erase Utility, PC-Diagnostic Utility | |
| Security Features | TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated hardware security lock slot, Password security (supervisor password, user password, HDD Lock) | |
| Dimensions (WxHxD) | 271mm x 49mm x 216mm / 10.7" x 1.93" x 8.5" (excluding protrusions) | |
| Weight | Approx. 2.3kg / 5.07lb (including battery) | |
| Integrated Options | GPS, Fingerprint Reader, Smart Card Reader, 3G Mobile Broadband (HSPA, up to 7.2Mbps), Solid State Disk, 2MP camera with dual LED light (project driven) | |
| Accessories | AC adapter: | CF-AA1633AE, CF-AA1633AG, CF-AA1633AT |
| | Battery charger: | CF-VCBT2W |
| | Battery pack: | CF-VZSU48U |
| | Car-Charger: | CF-AAV1601AW (Type A, 60W, 12V/24V), CF-LIND8024FD (EIAJ & Type A both 80W, 12-32V) |
| | Car-Mount: | CF-WEB194B |
| | Port-Replicator: | CF-VEB181AU |
| | RAM modules: | CF-WMBA902G (2GB) |
| | Testing Standards | |
| | Water resistance test: | IEC529 (JIS C0920) IPX5*, MIL-STD 810G 506.5, III* |
| | Dust resistance test: | IEC529 (JIS C0920) IP6X*, MIL-STD 810G 510.5, Level* |
| | Gravity drop resistance test: | MIL-STD 810G 516.6, (180cm* drop) |
| | Vibration resistance test: | MIL-STD 810G 514.6, category 20 % 24* |

As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Active Matrix colour display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artefact of the manufacturing process (effective pixels: minimum 99.998%). RAM capacity calculated as follows: 1MB = 1,048,576 bytes. HDD capacity calculated as follows: 1GB = 1,000,000,000 bytes. Toughbook is a brand name and registered trademark of Panasonic Corporation. Acrobat is a registered trademark of Adobe® Systems Incorporated. Intel, Intel Inside, the Intel Inside logo, Core, Intel Centrino, and the Intel Centrino logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Microsoft® and Windows® are registered trademarks of Microsoft® Corporation of the United States and/or other countries. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved. All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances. * Tested by an independent third-party lab following IEC 60529, sections 13.4, 13.6.2, 14.2.5, 14.3 Panasonic Marketing Europe GmbH, Panasonic Computer Products Europe Headquarters, Hagenauer Straße 43, 65203 Wiesbaden (Germany).

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